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	Application No.	Applicant(s)
Notice of Alleman Little	10/007,516	POPE ET AL.
Notice of Allowability	Examiner	Art Unit
	Krishnan S Menon	1723
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to amendment of 6/29/04	(OR REMAINS) CLOSED in the or other appropriate communing GHTS. This application is subund MPEP 1308.	nis application. If not included
2. The allowed claim(s) is/are <u>1-4,7-16,19-35,38,45-47,49-58</u>		
3. The drawings filed on <u>05 December 2001</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application N	No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a r ENT of this application.	reply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives 	ted. Note the attached EXAMI s reason(s) why the oath or de	NER'S AMENDMENT or NOTICE OF claration is deficient.
6. \square CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.	
(a) Including changes required by the Notice of Draftsperso	on's Patent Drawing Review (F	PTO-948) attached
1)		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in t	the Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the d	rawings in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the deposition attached Examiner's comment regarding REQUIREMENT For attached Examiner REQUIREMENT FOR attached REQUI	IT OF BIOLOGICAL MATERI	Al must be submitted N-4-45-
Attachment(s)		
Notice of References Cited (PTO-892)	<u></u>	nal Patent Application (PTO-152)
P. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ	nary (PTO-413),
 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date <u>8/15/03</u> 	Paper No./Mail), 7. ☐ Examiner's Ame	endment/Comment
Examiner's Comment Regarding Requirement for Deposit		ement of Reasons for Allowance
of Biological Material	9.	

Application/Control Number: 10/007,516

Art Unit: 1723

Allowable Subject Matter

Pending Claims 1-4,7-16,19-35,38,45-47,49-58 and 61 are allowed.

The following is an examiner's statement of reasons for allowance:

The claims indicated as allowable are based on a combination of limitations (1) a ring having an annular anchor is attached to an end of the housing and a flange cap is attached to the ring, with the ring separating the flange cap from the housing, and (2) the annular anchor having rounded ridges on the upper and lower surfaces of the anchor to prevent delamination of the potting material (3) radial channels on the annular anchor for air escape during potting. The combinations of these limitations are not taught by, or obvious to one of ordinary skill in the art from, the references, as explained below.

The closest prior arts to the instant claims are Antoni (586), JP-777, Eguchi (601), Lacy (619) and Elgas (202). Antoni teaches a hollow fiber filter device having an anchor ring to lock in the potting material to prevent delamination as in the claims. However, unlike in the claims, the flange cap is attached directly to the housing (not separated by the ring) with the anchor ring attached to the flange cap. JP-777 teaches a hollow fiber filter device with a housing, an anchor ring and a flange cap, with the anchor ring attached to the housing and the flange cap attached to the anchor ring, so that the end of the housing is separated from the flange cap by the ring as in the claims. The anchor rings of JP-777 and Antoni do not have the limitations of the rounded ridges formed on the upper and lower surfaces and the radial channels for air vents. The anchor ring of JP-777 is meant to provide structural and dimensional stability of the filter

Application/Control Number: 10/007,516

Art Unit: 1723

ends, at the same time facilitating easy insertion of the fiber bundle by providing an angular surface (21) to the ring (described as fiber insertion tool). There in no suggestion to combine the features of JP-777 with the features of Antoni in either of the references, and it would not be obvious to one of ordinary skill in the art to make such a combination. Eguchi reference teaches the ridges and the radial channels for the purpose of locking in the potting material and prevent delamination, with air vent during potting. However, JP-777 cannot be modified with Eguchi because such a modification would prevent the function of the part 21 as a fiber-bundle insertion tool in JP-777. Lacy teaches only structures suitable for welding, Elgas teaches surface treatment for better adhesion of the potting material, and both these references do not overcome the deficiencies of Antoni, JP-777 and Eguchi.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/007,516

Art Unit: 1723

Page 4

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Krishnan Menon Patent Examiner

W. L. WALKER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700